Fayette County GEORGIA

Where Quality Is A Lifestyle

Permits and Inspections Department
Suite 201
Phone: 770-305-5730 Fax: 770-719-5586
Web: http://www.fayettecountyga.gov/bldg_permits/infobldg.asp

NOTICE TO INDUSTRY

APPROVED FOR PUBLIC DISTRIBUTION

Notice to Industry No.: 2008-002
Discipline: 2006 International Energy Conservation Code
Date Created: 4/24/08
Date Effective: 4/24/08
Date Revised: 4/24/08
Page(s): Page 1 of 3

Subject:
ADOPTION OF 2006 GEORGIA STATE MINIMUM STANDARD ENERGY CODE: 2006 INTERNATIONAL ENERGY CONSERVATION CODE WITH GEORGIA STATE SUPPLEMENTS AND AMMENDMENTS.
SIMPLIFIED PERMITTING AND INSPECTION PROCEDURES

Authorization:
Fayette County Code, Chapter 5, Section 5-3.

Details:
The 2006 Georgia State Minimum Standard Energy Code has simplified the Prescriptive method used to meet minimum energy compliance. Previous Code was confusing due to the amount of glazing that had to be considered for each structure, therefore, RES-Check was the simplest method of showing compliance.

If you choose to continue using RES-Check, it should be submitted with your Permit Application. If not, Permits and Inspections will assume that you have chosen the Simplified Prescriptive Method of showing compliance. The following is a list of the Minimum requirements which must be met to take advantage of the simplified method:

Fayette County is in Climate Zone 3

1. Fenestration U-Factor- 0.65
2. Skylight U-Factor- 0.65
3. Glazed Fenestration (Solar Heat Gain Coefficient)- 0.40
4. Ceiling R-Value- R-30
5. Wood Frame Wall R-Value- R-13
6. Attic Kneewall R-Value- R-18, Note: The new code requires the attic side of kneewalls to have a sealed air barrier.

7. Mass Wall R-Value- R-5
8. Floor R-Value- R-19
9. Basement Wall R-Value- R-5/13, Note: R-5 for concrete and R-13 for framed walls
10. Slab R-Value- 0
11. Crawl Space R-Value- R-5/13, Note: R-5 for concrete and R-13 for framed walls.

Code lists ten (10) separate footnotes that apply to these minimum requirements. Permits and Inspections will provide copies of this Code Section to all interested parties and give clarification where needed.

Also of particular interest, is Appendix A, Air Sealing Key Points referenced in the new Code. Most of the areas referenced as needing to be sealed, are standard good building practices that Industry has been following for years. Please note: Code has included several new requirements that must be met. A copy of Appendix A can be obtained from our office. Permits and Inspections hasn't the manpower to inspect every component of the structure needing to be sealed, but will be relying, to a great extent on the Contractor's commitment to be in compliance with minimum Code requirements.

A new requirement of Code is Section 401.3, which states that a permanent certificate shall be readily accessible and posted on or near the electrical distribution panel or air handler. The certificate shall be completed by the builder or registered design professional. The certificate shall list the predominate R-values of insulation installed in or on ceiling/roof, walls, foundation (slab, basement wall, crawl space wall and/or floor) and ducts outside conditioned spaces; U-factors for fenestration; and the Solar Heat Gain Coefficient (SHGC) of fenestration. Where there is more than one value for each component, the certificate shall list the value covering the largest area. The certificate shall list the type and efficiency of heating, cooling, and service water heating equipment. The certificate shall also list the calculated heating load, sensible cooling load, latent cooling load and cfm for space conditioning.

Please be advised, a registered design professional is neither required or need to complete this certificate when using this simplified method. The contractor should be able to provide the information requested on the upper portion of the document and "Envelope Information". Your HVAC contractor will be able to provide the information concerning "Mechanical Summary".

Although these requirements have been adopted by the State as well as Fayette County, I am allowing a three month (90 day) grace period to allow for the learning curve involved with implementing new procedures. August 1, 2008, these Code requirements will be enforced by our inspectors. Posting of the required certificate will be inspected on the Final HVAC inspection.

Attached is an example of a completed Sample Certificate. If you have any concerns or questions that I can help with, please contact me at 770-305-5130.

Sincerely,

Joe Scarborough
Interim Director
Permits and Inspections Department

EXAMPLE OF COMPLETED SAMPLE CERTIFICATE

Georgia Energy Code Compliance Certificate*

Builder *A-1 Home Builder* Contact Information *404-555-1122*
Insulation Co. *Super R* Contact Information *404-555-2233*
Heating & Air Co. *Acme HVAC* Contact Information *404-555-3344*

Envelope Information

Flat Ceiling/Roof *R*-Value *30* Sloped/Vault Ceiling *R*-Value *N/A*
Exterior Wall *R*-Value *13 + 3* (Note: *R*-13 + *R*-3 is *R*-13 Cavity and *R*-3 Sheathing)
Attic Kneewall Cavity *R*-Value *13* Attic Kneewall Sheathing *R*-Value *5*
Basement Stud Wall *R*-Value *N/A* Basement Continuous *R*-Value *N/A*
Crawlspace Stud Wall *R*-Value *0* Crawlspace Continuous *R*-Value *5*
Foundation Slab Edge *R*-Value *0* Above Grade Mass Wall *R*-Value *N/A*
Cantilevered Floor *R*-Value *N/A* Floor Over Unconditioned Space *R*-Value *19*
Other Insulation *R*-Values *N/A*
Window *U*-Factor *0.34* Window SHGC *0.37*
Skylight *U*-Factor *N/A* Skylight SHGC *N/A*
Glazed Door *U*-Factor *N/A* Opaque Doors (< 50% glazed) *U*-Factor *0.35*

Mechanical Summary

Water Heater Installed By *Acme Plumbing*
Gas *X* Energy Factor *0.61* Electric _____ Energy Factor _____
Other (Explain) _____ Efficiency _____
Number of Heating & Cooling Systems: *2* (# of Air Handlers)
Heating Gas *X* AFUE *80%* Air Source Heat Pump _____ HSPF _____
Heat (Other) _____ Efficiency _____
Cooling System Type *DX Air Conditioner* (Direct Expansion, Heat Pump, Geothermal, Etc.) SEER *13*
Total House Heating Load *57,144* (Btu/h, Based on ACCA Manual J *X* or ____)
Total House Cooling Load *45,737* (Btu/h, Based on ACCA Manual J *X* or ____)
Cooling Sensible Load *33,537* (Btu/h) Cooling Latent Load *12,200* (Btu/h)
Total Air Handler CFM *1,526* (Based on Design/Calculations)
Heating & Cooling Load Calculations Performed by (Name) *Jay Manuello, Acme HVAC*

*Certificate shall be readily accessible and posted on the electrical distribution panel or air handler. List primary type when there is more than one value for each component (i.e. certificate shall list the value covering the largest area). The certificate shall be completed by the builder or registered design professional.

EXAMPLE OF COMPLETED SAMPLE CERTIFICATE